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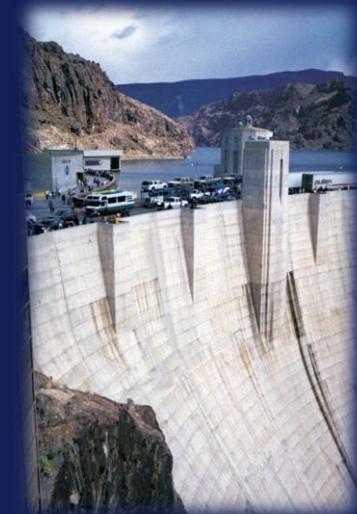
# Drinking Water Treatment Facilities





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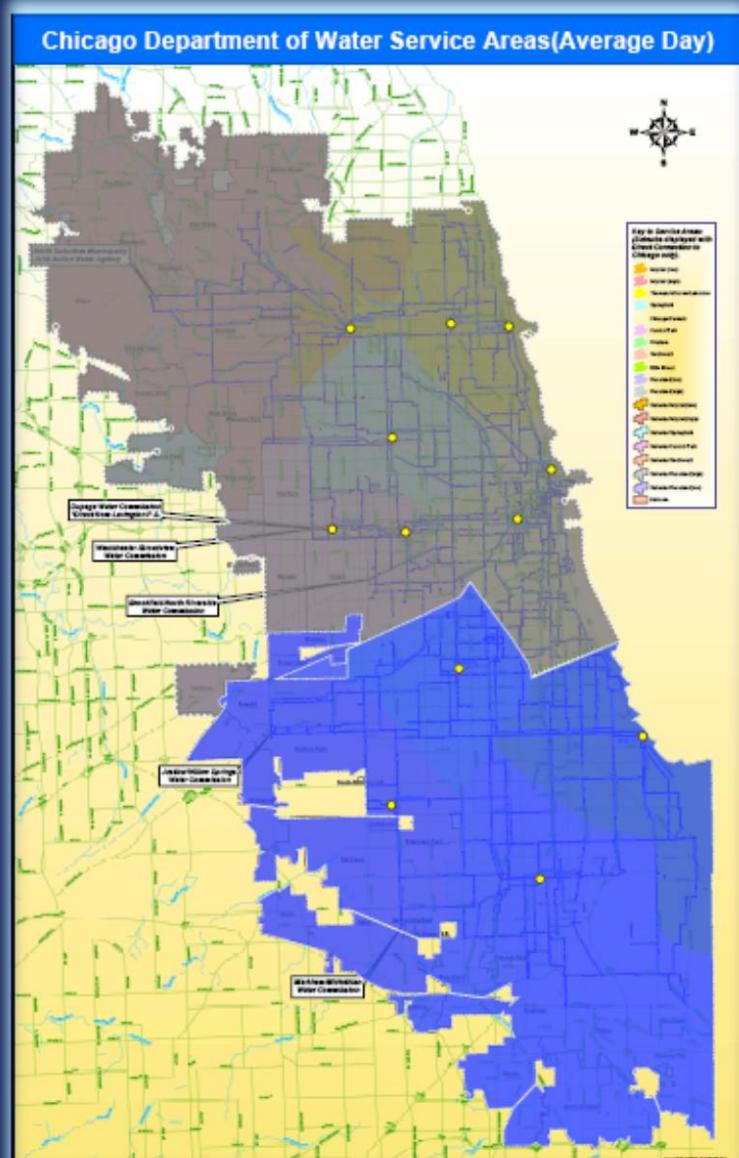
# Storage Facilities





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# Distribution System





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# Pump Stations



Exterior



Interior





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# Hydrants and Residential/ Commercial Taps



# Electronic Control Systems

- Supervisory Control and Data Acquisition (SCADA) system
  - Electronic “brain” that controls operation of drinking water and wastewater systems
- Electronic network links monitoring system and controls for:
  - Drinking water system
    - Treatment
    - Storage
    - Distribution
  - Wastewater system
    - Collection
    - Treatment
    - Storage
    - Discharge

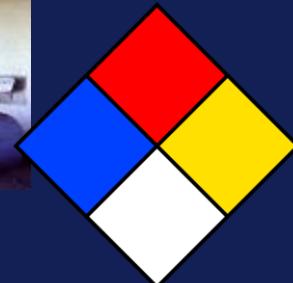




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# Chemicals Found at Treatment Facilities

- Water-Reactive
  - Ammonia (anhydrous)
  - Ammonia (liquid)
  - Sulfur dioxide
- Highly Flammable
  - Methane
  - Propane
  - Hydrogen sulfide
- Explosive & Strong Oxidizing Agents
  - Chlorine dioxide
  - Hydrogen peroxide
- Strong Oxidizing Agents
  - Chlorine
  - Liquid Oxygen





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# Human Resources



# Chicago's Drinking Water System

- The Bureau of Water Supply provides just under one billion gallons of water a day to Chicago and 125 suburban communities
- Serves a 5.38 million people- 43% of Illinois
- Primary water source is Lake Michigan
- Two purification plants
- Twelve pumping stations
- 4,200 Miles of Distribution Mains



James W. Jardine Water Purification Plant

*Image and data courtesy City of Chicago Dept. of Water Management*



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# Wastewater Assets